

19970911.ba v01_n665.bam.970911 v01_n666.bam.970911

>From ???@??? Thu Sep 11 02:03:50 1997
Message-Id: <199709110502.AAA13359@sco.theporch.com>
Date: Thu, 11 Sep 1997 00:02:04 CDT
Subject: BOATANCHORS digest 1665

BOATANCHORS Digest 1665

Topics covered in this issue include:

- 1) Re: AN/PRM-10 Grid Dip Meter
by Tom Kelly <tjkelly@apk.net>
- 2) Re: Need RME 4350 Parts
by John Hurst <hurstjsj@gte.net>
- 3) Crash course
by "John KM5EX" <jfincher@phoenix.net>
- 4) WTD: 3-6MC ARC-5 Rcvr
by Mike Maloney <ac5p@ionet.net>
- 5) Re: AN/PRM-10 Grid Dip Meter
by Bob Roehrig <broehrig@admin.aurora.edu>
- 6) Collins #541 6291 00
by Kevin Gallagher <wire2liv@gomontana.com>
- 7) Re: AN/PRM-10 Grid Dip Meter
by Ed Tanton <n4xy@bellsouth.net>

Date: Wed, 10 Sep 1997 22:49:53 -0400
From: Tom Kelly <tjkelly@apk.net>
To: boatanchors@theporch.com
Subject: Re: AN/PRM-10 Grid Dip Meter
Message-ID: <34175C51.33D3@apk.net>

Greetings,

Several days ago I asked the list to tell me about an army GDO, the AN/PRM-10. The high praise that this unit received in the responses that I got from some list members has me just blown away. It was described as greatly over-engineered and as able to tune a straight wire.

I wonder why I've never heard of this unit before. Do list members use GDOs (any GDO, not just this one) as a regular part of their set of test equipment or are GDOs regarded as a specialized, less frequently used item?

Any thoughts on this?

Regards,

Tom

--

Tom Kelly
Novelty, Ohio (east of Cleveland)

mailto:tjkelly@apk.net

Date: Wed, 10 Sep 1997 20:17:45 -0700
From: John Hurst <hurstjsj@gte.net>
To: Gerald Morris <k6qy@classic.msn.com>
Cc: Boatanchors list <boatanchors@theporch.com>
Subject: Re: Need RME 4350 Parts
Message-ID: <341762D9.267F@gte.net>

Gerald Morris wrote:

> I am in need of the dial drive mechanism for a RME 4350 or 4350A rcvr.

Gerald, Don't waste you're time trying to find a good RME 4300, 4350, 4350A dial drive. They typically quit working after about 2 weeks when the receivers were new. A high school friend of mine bought a new 4300 and was constantly tweeking the tension spring; it was a disaster. I've seen quite a few of these receivers over the years and the 75 to 1 reductions have either been non-functional or, more often, replaced with a planetary drive such as a Jackson Bros. 6:1 unit. I had a 4350 with two of these drives cascaded, it tuned smoothly w/o backlash and fit inside a hollow knob. What is really ridiculous is that RME HAD to know of the problems in this "mechanism" on the 4300 and then chose to use it on the (dual conversion) 4350's. It's too bad but this alone soured many people on these otherwise decent receivers. There may be a story there about RME- ElectroVoice engineering, management.
73, John, KU6X

Date: Wed, 10 Sep 1997 22:03:42 -600
From: "John KM5EX" <jfincher@phoenix.net>
To: boatanchors@theporch.com
Subject: Crash course
Message-ID: <199709110316.WAA22743@raid2.fddi.phoenix.net>

Hi all. New to the list but love it so far. I don't know if the radio in the following questions applies as a TRUE boatanchor but I'll give it a shot. You be the judge. It (as all REAL radios do) glows in the dark and helps to heat the shack in the wintertime so I'm pretty sure it qualifies.

Okay. It's a Kenwood TS-511S that I used to use when I was licensed before (12 years ago). It's spent a few summers in a garage in South Texas and now doesn't seem to work too well above about 20m. Mostly what I'm asking I think is for a crash course in restoring old rigs. What will the hot/cold cycles do to various components? How about high humidity? Are there a few standard things you do when you first get a less-than-perfect rig to fix it up like replace all the tubes or check certain common things? Take it outside and give it a flea dip? You know, general things like this?

Also, does anyone know approx. when these rigs were made? I think its older than I am!

Thanks tons for your help and 73
John KM5EX

Date: Wed, 10 Sep 1997 22:26:51 -0500 (CDT)
From: Mike Maloney <ac5p@ionet.net>
To: boatanchors@theporch.com
Subject: WTD: 3-6MC ARC-5 Rcvr
Message-ID: <199709110326.WAA13512@mail.ionet.net>

Would anyone reading this have the subject radio avail for sale or trade? Does not have to be unmodified but would prefer one not too butchered w/orig front-end and IF cans. Please reply direct w/description.

Tks and 73,

Mike ac5p@ionet.net Bartlesville,OK 74006

Date: Wed, 10 Sep 1997 22:53:09 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Tom Kelly <tjkelly@apk.net>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: AN/PRM-10 Grid Dip Meter

Message-ID: <Pine.ULT.3.96.970910224145.1436A-100000@admin.aurora.edu>

On Wed, 10 Sep 1997, Tom Kelly wrote:

> I wonder why I've never heard of this unit before. Do list members use
> GDOs (any GDO, not just this one) as a regular part of their set of test
> equipment or are GDOs regarded as a specialized, less frequently used
> item?

I would rate a GDO much like an impedance bridge - not used with great frequency (oh my!) but certainly invaluable when you need one.

I am not familiar with the AN/PRM-10 at all. My favorite is the Measurements model 59 (I have 2 of them). 2nd place would be the Millen.

While the usual task for one is to determine the resonant frequency of a tuned circuit, it can also be used as a wavemeter to detect radiated energy from an osc or transmitter (is handy when looking for harmonics or checking neutralization). It can be used to measure the value of a cap or inductance. I often use mine as a signal generator to excite my antenna bridge.

Years ago when I worked for a factory that made TV tuners, We had a sweep generator feeding the tuner under test and used GDO as a variable frequency marker to check the edges of the response curve.

In some GDOs that use a 2-pin plug-in coil, you can test a xtal by plugging it in, in place of the coil.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Wed, 10 Sep 1997 22:11:32 -0600
From: Kevin Gallagher <wire2liv@gomontana.com>
To: boatanchors@sco.theporch.com
Subject: Collins #541 6291 00
Message-ID: <34176F74.5C08@gomontana.com>

Have the above for trade, I like Millitary Boatanchors. Thanks, Kevin

Date: Thu, 11 Sep 1997 00:34:09 -0400
From: Ed Tanton <n4xy@bellsouth.net>

When you want to know the resonant freq of a circuit what else would you use? I was fortunate enough to find a NIB '10 several years ago, removing the MIL wrapping myself. It's a terrific unit, and better than any GDO I own (2 or 3 kinds of Heath, 1 Knight, 2 Millens & a B&W soon.)

72/73

QRP-ARCI #7663	G-QRP #6779	OK-QRP #172	QRP-L #758	
AdvRC #140	NORCAL #1779		NCDXF	SEDXC
Life Member:	ARRL	AMSAT	INDEXA	QCWA

"Think you can, think you can't: either way you're right!" Henry Ford

>From ???@??? Thu Sep 11 17:35:45 1997
>Message-Id: <199709112006.PAA03872@sco.theporch.com>
>Date: Thu, 11 Sep 1997 15:06:32 CDT
>Subject: BOATANCHORS digest 1666

Topics covered in this issue include:

- 1) RCA DR-16 Rcvr
by avidov@juno.com (avi aben)
- 2) Mil Aircrew Survival Radios,Etc.
by avidov@juno.com (avi aben)
- 3) Re: AN/PRM-10 Grid Dip Meter
by vancleef@netcom.com (Henry van Cleef)
- 4) R390A most common parts failure

- by laffitte@prtc.net (laffitte)
- 5) Re: Crash course
by Chris Lamousin <chrisl@netdoor.com>
 - 6) Re:The NC 240D
by Richard Post <post@ouvaxa.cats.ohiou.edu>
 - 7) Clegg 99 6M AM rig fs/trade
by gcr2@po.CWRU.Edu (George C. Rybicki)
 - 8) FS: D-104 with stand
by Avery Comarow <AComarow@usnews.com>
 - 9) problematic cap in R390 & R390A audio deck
by John Shriver <jas@shiva.com>
 - 10) FS: Millman: Vacuum Tube and Semiconductor Electronics
by bdhall@ghg.net (Benjamin D. Hall)
 - 11) Livermore swapmeet
by GIBSON@ASTRA.LBL.GOV
 - 12) Where to buy old/BA books on the Net (was Books wanted)
by Ben Bradley <bradley@norcross.mcs.slb.com>
 - 13) CW CRYSTALS: New e-mail address
by "Tom R. Rice" <tomrice@netcom.com>
 - 14) Mil Stuff for sale
by "Joseph W. Pinner" <kc5ijd@sprintmail.com>
 - 15) xtals
by BEN NOCK <G4BXD@compuserve.com>
 - 16) CQ mag, July 97 ?
by BEN NOCK <G4BXD@compuserve.com>
 - 17) Cleaning radios..511S ?
by "Larry" <rau@wco.com>
 - 18) What is it?. What it is .
by "Larry" <rau@wco.com>
 - 19) WTB: Manual for 51J2
by John Poulton <jp@cs.unc.edu>
 - 20) Re: Cleaning radios..511S ?
by Ed Tanton <n4xy@bellsouth.net>
 - 21) National R115 RX Schematic
by maccary@on-ramp.ior.com
 - 22) Re: Cleaning radios..511S ?
by Ed Tanton <n4xy@bellsouth.net>
 - 23) HR050/60 tuning strips
by "Lawrence R. Ware" <lrware@pipeline.com>
 - 24) The last thing to do when cleaing BAs
by Scott Robinson <spr@earthlink.net>
 - 25) Re: The last thing to do when cleaing BAs
by Ed Tanton <n4xy@bellsouth.net>

Date: Thu, 11 Sep 1997 02:39:24 -0400
From: avidov@juno.com (avi aben)

To: Boatanchors@theporch.com
Subject: RCA DR-16 Rcvr
Message-ID: <19970911.023942.12894.0.avidov@juno.com>

Looking for data on this Dual Diversity Receiver of 1950,s vintage,
probably for commercial application.Are there any still in operation ,
possibly in Latin America ? 73

Date: Thu, 11 Sep 1997 02:46:00 -0400
From: avidov@juno.com (avi aben)
To: Boatanchors@theporch.com
Subject: Mil Aircrew Survival Radios,Etc.
Message-ID: <19970911.024614.12894.1.avidov@juno.com>

Is there a newsgroup for collectors of Aircrew Survival Gear such as
Oxygen Masks and Rescue Radios or Beacons ? 73

Date: Thu, 11 Sep 1997 01:19:16 -0600 (MDT)
From: vancleef@netcom.com (Henry van Cleef)
To: tjkelly@apk.net
Cc: boatanchors@theporch.com
Subject: Re: AN/PRM-10 Grid Dip Meter
Message-ID: <199709110719.BAA11214@netcom17.netcom.com>

As Tom Kelly discourses

>
> I wonder why I've never heard of this unit before. Do list members use
> GDOs (any GDO, not just this one) as a regular part of their set of test
> equipment or are GDOs regarded as a specialized, less frequently used
> item?

>
> Any thoughts on this?

>
I'm not familiar with the military unit, but have taken plenty of use
out of some of the commercial grid dips. So far as solid dip
indications without false dips throughout its range, it's hard to beat
the Boonton 59 Megacycle meter. It's a real workhorse. And yes, it
has internal (hum) and external modulation, and (with plate power
turned off) can serve as a detecting wavemeter, using either the meter
or headphones. The Millen dips are also good usable dips, although
less sensitive and versatile (what do you want---they were 1/3rd the
price of the Boonton, new?).

A good dip is a very usable and useful item, and can be used wherever

frequencies are a part of what is being measured. If you want to measure resonant frequency of a tank circuit, the dip function does it. If you want a handy VFO signal source, you've got one---just couple into the circuit with some wire wrapped around the coil and connected to the circuit. Wanna listen for tweets and birdies, and things that will get you a WAT (worked all television)? Use it with headphones as a wavemeter or oscillating frequency meter. Measurements published a whole bunch of "ferinstance" uses in the manual that came with the Megacycle Meter, and this is only the beginning of what you can use it for.

Both the Measurements and Millen designs are dirt simple---Colpitts oscillators using a 955 or 9002 (same tube, different packaging), and paid a lot of attention to eliminating false dips (a function of mechanical design in avoiding self-resonances in the circuit). If they're clean, got a good toob, they work, and that's that.

A Q-meter or an RX bridge will tell you lots, and they are useful, but if you don't have one, or don't have an easy way to connect to the circuit, a grid dip will give you much of the same information. A dip is handy for finding parasitic loops and such as well. A good dip isn't a specialty instrument, any more than a Simpson 260 is, but you do have to know how to use it, and work with it and use some imagination, as well as know some some theory, to get the most mileage out of it. If that military unit is as good as a Megacycle Meter, get used to using it, and get some real mileage out of it.

So far as Impedance Bridges are concerned, a GR650A or it's successor (1650, as I recall) are also basic dirt simple devices that do all sorts of wonderful things, and are not loaded with fancy things to go wrong-go wrong-go wrong.

Dirt simple stuff like this takes some skill to use. But it really does wonderful things, and once you learn how to use it, you'll wonder how you lived without it.

So far as the cheapies (Heath, Eico, etc.) they were "affordable" for the hobbyist 40-50 years ago. But you can buy Measurements, Boonton, and GR for cheap, clean it up, and you've got class iron on your bench that has such vastly superior performance that it isn't worth playing with toy test equipment. If you've got old top quality stuff, and aren't using it regularly, you're not getting maximum mileage out of things. This kind of equipment is about as "general purpose" as you can get.

A copy of Terman (1935) or Terman-Pettit (1952) on measurements will give you a lot of ideas for doing good instrumentation work. Also, Terman's "Radio Engineering" (1937 or 1947 editions recommended) has a

lot of the basic theory in language that matches the manuals for these boxes.

--

=====
Hank van Cleef
=====

Date: Thu, 11 Sep 1997 07:51:54 -0300
From: laffitte@prtc.net (laffitte)
To: boatanchors@theporch.com
Subject: R390A most common parts failure
Message-ID: <3417CD4A.2ECD@prtc.net>

Good morning gang:

I don't know if this may be a good idea or not but I think that with the combined experience of many of us with the R390A (and 390) receivers, it would not be a bad idea to produce a thread in which we mention the most common parts failure in each subchassis (or at least what has been common for most of us). It will be of great help to all and probably one of the best troubleshooting guides for these BAs. Most common tube failures should also be included. For example common failures that I have found in the IF subchassis (R390A) include:

Z 503 --AGC amp. coil
R 515 -- screen volt. for V502
R 520 -- " " " V503
3TF7 -- ballast tube

These are problems that I have seen more than once. The only failure that I have dealt with in the RF subchassis is an open Z203. The most common problem in the audio subchassis for both 390 and 390A has been the 6AK6 tubes. They always seem to go weaker faster. Any other additions?

best of 73s
Guido E. Santacana
BA collector in the tropics

Date: Thu, 11 Sep 1997 07:51:28 -0500
From: Chris Lamousin <chrisl@netdoor.com>
To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Crash course

Message-ID: <3417E950.B2BD1BF2@netdoor.com>

John KM5EX wrote:

> Hi all. New to the list but love it so far. I don't know if the
> radio in the following questions applies as a TRUE boatanchor but
> I'll give it a shot. You be the judge. It (as all REAL radios do)
> glows in the dark and helps to heat the shack in the wintertime so
> I'm pretty sure it qualifies.
>
> Okay. It's a Kenwood TS-511S that I used to use when I was licensed
> before (12 years ago). It's spent a few summers in a garage in
> South Texas and now doesn't seem to work too well above about 20m.
> Mostly what I'm asking I think is for a crash course in restoring old
> rigs. What will the hot/cold cycles do to various components? How
> about high humidity? Are there a few standard things you do when you
> first get a less-than-perfect rig to fix it up like replace all the
> tubes or check certain common things? Take it outside and give it a
> flea dip? You know, general things like this?
>
> Also, does anyone know approx. when these rigs were made? I think
> its older than I am!
>
> Thanks tons for your help and 73
> John KM5EX

Following up on this message. Can anyone recommend any books for repair
and maintenance of BAgeared to newbies?

Chris

KD5AXK

Date: Thu, 11 Sep 1997 09:16:13 -0400

From: Richard Post <post@ouvaxa.cats.ohiou.edu>

To: boatanchors@theporch.com

Subject: Re:The NC 240D

Message-ID: <v03007801b03d9ea4732d@[132.235.51.126]>

>thing with the NC 240 D is
>sensitivity. I have never been able to get from it what I can get from
>an HRO.Audio is as good as you all know the Nationals are, and with the
>original speakers even better. Has anyone done this observation? Are
>there any more fans of this elegant BA?

>
>TNX and Best 73s
>Guido E. Santacana KP4FAR
>BA collector in the tropics

My NC-200 (the prewar version of the 240, nearly identical) will hold its own against any single-conversion set of the era (including an early HR0).

I assume you have checked alignment and the RF/IF stages for gain.

73 de Rich kb8tad@qsl.net

See the NC-200 at the
new BA Pix mirror site
<http://www.qsl.net/kb8tad/>

Date: Thu, 11 Sep 1997 09:55:35 -0400 (EDT)
From: gcr2@po.CWRU.Edu (George C. Rybicki)
To: boatanchors@sco.theporch.com
Subject: Clegg 99 6M AM rig fs/trade
Message-ID: <199709111355.JAA27090@piglet.INS.CWRU.Edu>

I bought a newer ^6M rig so my venerable Clegg 99 is FS trade. The rig is in nice shape and works well. I have a manual copy to include. I would prefer to trade it for a GC rcvr or transmitter but will accept cash offers. 73 George

Date: Thu, 11 Sep 1997 09:16:05 -0500 (CDT)
From: Avery Comarow <AComarow@usnews.com>
To: boatanchors@theporch.com
Subject: FS: D-104 with stand
Message-ID: <2.2.16.19970911101027.291757f2@pop3.usnews.com>

Very nice shape, with T-UG8 amplified stand and 4-pin connector. \$35 plus shipping.

73, Avery W40GK

Date: Thu, 11 Sep 1997 10:29:56 -0400
From: John Shriver <jas@shiva.com>

To: davemed@worldnet.att.net
Cc: boatanchors@theporch.com
Subject: problematic cap in R390 & R390A audio deck
Message-ID: <199709111429.KAA26364@brill.shiva.com>

The nefarious capacitor in the audio deck was a wet-slug tantalum. The electrolyte is sulphuric acid, so when it goes it's an ugly mess. Premium wet-slug tantalum caps had silver cases, cheap ones copper. But I think the real issue is the acid eating through the insulating seal. Recent wet-slug tantalums (1980's) were made with teflon seals, perhaps they were more durable?

There are certainly more appropriate caps for us to use in that position now.

Date: Thu, 11 Sep 1997 08:41:04 -0500
From: bdhall@ghg.net (Benjamin D. Hall)
To: boatanchors@sco.theporch.com
Subject: FS: Millman: Vacuum Tube and Semiconductor Electronics
Message-ID: <3.0.32.19970911084057.006a0248@mailman.ghgcorp.com>

Greetings y'all, a friend at work has a copy of "Vacuum Tube and Semiconductor Electronics" by Jacob Millman, published in 1958, that he'd like to sell to someone who will use it. Neither of us knows what it is worth, the pro-resellers want \$15-\$30 for it, but he isn't that greedy. You can contact him directly at jkennard@ghg.net

Thanks and 73,
Ben

Date: Thu, 11 Sep 1997 8:48:40 -0700
From: GIBSON@ASTRA.LBL.GOV
To: boatanchors@theporch.com
Subject: Livermore swapmeet
Message-ID: <970911084840.20800133@ASTRA.LBL.GOV>

I was at the Livermore Ca swap meet last Sunday and saw a partly stripped HP 606A RF sig gen for \$10. The power transformer and RF turret were still there. So what I had was a triode osc driving a push-pull tuned RF stage with a multiganged tuning cap connected to a precisely calibrated dial through brass reduction gears.

The penny finally dropped. What I had here was the basis of a professionally finished regenerative six-band receiver with a push-pull tuned RF stage for

only \$10 ! and it came with all tubes.

P.S. Still need service manuals for Gonset G-43 and Hallicrafters S40B receivers.

John Gibson, Berkeley Ca.

Date: Thu, 11 Sep 1997 12:01:27 -0400
From: Ben Bradley <bradley@norcross.mcs.slb.com>
To: boatanchors@theporch.com, w2ec@VNET.IBM.COM
Subject: Where to buy old/BA books on the Net (was Books wanted)
Message-ID: <3.0.32.19970911120126.009c8480@norcross.mcs.slb.com>

In addition to my interests in boatanchors, I enjoy collecting books. Actually, radios take a back seat to this other interest. Whenever I'm in a used book store or a thrift shop, I look for books on amateur radio and electronics (as well as for other interests I have). I've found things such as a '60's ARRL Handbook for \$4 at a used book store, and on two occasions, RCA receiving tube manuals for less than a dollar - one at a thrift store, and one at a friends-of-the-library book sale (ask your local public library if they have such sales).

On the other hand, these are not common finds, and most thrift stores you walk into are more likely not to have something like that (not that they never get that kind of stuff, but someone like me has probably already bought it up!). Yet with Modern Technology we can scan the bookshelves of hundreds or even thousands of used book dealers for a particular title or author in seconds! Such books may be a bit more than thrift store prices (such as \$10 to \$20), but that's because these people are trying to make a living selling old books. The prices are still reasonable and on par with the book prices I've seen here on boatanchors (and most of them DO know that the 4th Edition Radiotron Designer's Handbook sells for \$50 to \$100. I once saw one in the \$25 range, I emailed to order it, and of course it was already sold. But there are several of the much smaller 3rd edition in the \$25 range).

You can likely find most any semi-common book that's been in print more than a few months from one of the many booksellers that have their books listed at one or more of the following sites:

<http://www.interloc.com>

<http://www.abebooks.com>

<http://www.bibliofind.com>

<http://www.bibliocity.com>

If the book you want isn't there, some of these allow you to

enter books titles you want into their database. Those appear to be the largest used book databases on the net, but there are others out there somewhere.

And if you're really into books, or you really want something that you can't find using the above methods, there's the bibliophile mailing list - subscription instructions are at:

<http://www.auldbooks.com/biblio/>

You get a two-week trial sub, then it's \$30/year. Biblio has well over 1000 subscribers, mostly book dealers, and many times the traffic of boatanchors (don't say I didn't warn you). Posting a WTB for most any book title is likely to get you a quote from one of them.

I looked on interloc and abebooks for the books below, and found at least one copy of "Isle Royale Calling". There were several of Orr's Radio Handbooks, but the earliest I saw was from the '60's. I didn't find "Stand By for Danger", but I have no doubt a copy could be found.

One interesting, possibly BA-related book I bought over the net (I once saw the title referenced in another book, but hadn't found it until I looked in the above databases) is "Building Scientific Apparatus", that could be very useful to those who want to try making their own vacuum tubes (there was a thread on this months ago). While it doesn't actually mention making electron tubes, it has chapters on glassblowing and using/finding vacuum pumps that would be useful in such an endeavor.

If you search on the net using any of these methods, get out your checkbook, because you WILL find much of that you're looking for...

w2ec@VNET.IBM.COM wrote:

>Looking for a Radio Handbook (not ARRL but Jones / Orr version), any edition
>1940's thru 1950's. Physical condition not critical as long as it's in one
>piece and usable for reference.

>

>Also looking for two youth oriented fiction books, both featuring ham radio.

>

>One is "Isle Royale Calling", probably late 1940's or early 50's publication.

>The other is "Stand By for Danger", probably early 50's publication.

>

>73, Ray W2EC w2ec@vnet.ibm.com

Ben Bradley, Design Engineer
Schlumberger MCS
snail: 3155-B Northwoods Parkway
Norcross, GA 30071-1576 USA
email: bradley@norcross.mcs.slb.com
voice: 770-368-3444 ext. 3191
fax: 770-840-8614

Date: Thu, 11 Sep 1997 09:33:59 -0700 (PDT)
From: "Tom R. Rice" <tomrice@netcom.com>
To: boatanchors@sco.theporch.com (boatanchors list)
Cc: glowbugs@www.atl.org (free glowbugs)
Subject: CW CRYSTALS: New e-mail address
Message-ID: <199709111634.JAA28804@netcom20.netcom.com>

The following message has been forwarded per John's request. Please zap your replies to him, not me, the mere forwarder.

73 de WB6bYH

> From: "Phoenix Crystals" <phxtal@nava-link.net>
> Subject: CW CRYSTALS
> Date: Thu, 11 Sep 97 09:25:41 PDT
>
> Hi Tom,
> Well after being off e-mail for 10 days due to server being hit by
> lightning, I've changed servers so I now have a new e-mail address. Since
> I haven't been able to read the mail.....no telling what everyone is saying.
> Anyway if anyone is asking you can pass the word around. Thanks
>
> New address is: cwxtal@u-n-i.net
>
> 73 John
>
> John Morris
> C-W CRYSTALS (Formerly Phoenix Crystals)
> 1714 NORTH ASH ST.
> NEVADA, MO 64772
>
> Phone: (417) 667-6179
> FAX: (417) 667-6169
> E-mail: cwxtal@u-n-i.net
>
> Supplying custom crystals for Vintage Equipment, QRP'ers, Amateurs, and
> Experimenters since 1933.
>

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"Start off every day with a smile and get it over with." --W.C.Fields
Tom R. Rice
tomrice@netcom.com

Date: Thu, 11 Sep 97 12:19:04 -0500
From: "Joseph W. Pinner" <kc5ijd@sprintmail.com>
To: "Boatanchor 1" <boatanchors@theporch.com>
Subject: Mil Stuff for sale
Message-ID: <199709111717.KAA02543@mailgate32>

EE-8 field phones (pair) -
quite excellent condition, canvas,
50's vintage \$ 85.00

SG-1144 - signal generator
50 kc - 90 Mc, CW/AM/FM (FM above 30 Mc).
70's vintage. working \$ 150.00

BC-654 radio
excellent condition. external with normal
wear and tear. inside excellent.
w/ short leggs \$ 150.00

CH-219 crystal chest (f/BC-669)
good condition (one drawer sticks and
someone scrapped drawer to get it out)
two drawers with DC-34 and DC-35 crystals
- missing 3-5 crystals a drawer. ? ? ?

GRR-24 receiver
mil aero rack mounted receiver 225-400 Mc
one synthesized channel \$ 75.00

RT-662/GRC-106 HF set
receiver / exciter part of GRC-106
very good condition. working \$ 285.00

ARC-73 w/control box
vhf aero transmitter / receiver
good physical condition untested \$ 85.00

Joseph W Pinner
Lafayette, LA
KC5IJD
EMail: kc5ijd@sprintmail.com (NEW PLEASE USE)

Date: Thu, 11 Sep 1997 13:19:41 -0400
From: BEN NOCK <G4BXD@compuserve.com>
To: Multiple recipients of 1 <boatanchors@sco.theporch.com>
Subject: xtals
Message-ID: <199709111320_MC2-2015-8E5@compuserve.com>

Whats the e-mail address for that firm

CW Xtals ???

the one I have gets bounced ?

Ben G4BXD.

Date: Thu, 11 Sep 1997 13:17:45 -0400
From: BEN NOCK <G4BXD@compuserve.com>
To: Multiple recipients of 1 <boatanchors@sco.theporch.com>
Subject: CQ mag, July 97 ?
Message-ID: <199709111318_MC2-2015-87D@compuserve.com>

I'm looking for a copy of the article of mine
used in the July 97 CQ mag, having not been =

sent one by the publishers. =

I'd like to see what the did with my =

material.

cheers. Ben G4BXD

Date: Thu, 11 Sep 1997 12:15:07 -0700
From: "Larry" <rau@wco.com>
To: "boatanchors" <boatanchors@theporch.com>, <jfincher@phoenix.net>
Subject: Cleaning radios..511S ?
Message-ID: <199709111817.LAA12213@shell.wco.com>

yes, first thouroughly clean the chasis top and cabinet with warm water

and dish soap, being careful not to get it into tube sockets. don't freak if you do.. but do . rinse with clean water.. use 2 clean kitchen sponges, and paper towels, soft rags, a an old tooth brush if necessary. Leave underside of chasis alone for now ! Do not get you transformer wet..al most wipe it with a slightly damp spong and wipe dry immediately.

. Put isopropyl alchohol or rubbing methanaol in a hand sprayer from the hard ware store.. turn radio on it's side and give it a spray.. top and bottom... but protect any important cosmetic plastic parts.. especially the dial, case, paint etc... drain the alky and dry with soft cloth or paper towel.. don't leave any paper towel or lint behind.. Que tips help and you can get in tight corners with cloth and a screw driver..

Do not use abrasives !..if you have rust you can use a green kitchen scrubber with the soap and water.

Use a lamp with a reflector at a safe distance to dry out the radio for several hours... if you got or alky in the tube sockets, blow it out by mouth, or with compressed air (oil free)...a soda straw might help... turn the radio over occaisionally over the period of a day until it is really dry again.. don't melt stuff,, WARM it..pleasantly warm to the touch is just right. give it 8-12 hours altogether.. more for a really big radio.

Buy Caig De-Oxit D-5. the small spray can . accept NO substitutes except Caig Cramolin R5L which will require a syringe to apply . Apply the Caig deoxidant/conductive lubricant to all switches, especially the bandswitch, all pots like volume, carrier balance etc. and very carefully with a cue tip to connectors like the PL-259. Operater the control back and forth repeated while it is still wet with the caig cleaner.

In cases of really gross wafer type band switches.. get an eraser pencil at a stationary store.. and sharpen it to a fine point... (this is a pencil with a rubber center) use the rubber point to remove oxide from the wafers which will posish up nicely to thier former luster,, flush with alky dry and then treat with the Caig stuff. Relays can be burnished with a burnishing tool (GC-9338) or with good bond paper and the caig stuff if they arent pitted/burned.

Any air variable tuning capacitors can get a little spray of the De-Oxit on the bearings and the flat springs that connect the stators front and read.. do not treat any compression or mica trimmers !

Absolutely do not use junk like radio shack tuner cleaners which can destroy you radio or at least require removal with nasty crap like dicloro-difloro-ethane. I have seen more

radios made into non-functional crap by the radio shack sprays than you would believe.

Avoid the advice of others to use Carbon Tetra Chloride etc.. toxic !

Take you tubes gently wipe them clean but only after you have written down the tube type.. as it frequently wipes off old tubes.. if it does use a permanent laundry marker to write the tube type on the glass...you can also use these pens to write on metal chassis and it will come off again with isopropyl rubbing alky.

Test your tubes on an Emission tester like a Hickok or military TV/7 makes sure pins are clean

Clean your tube pins with the Caig stuff..and if you can get the tube back in the socket while the pins are still wet with it, so much the better..a little in an out action helps here.

Get a can of Tri Flow spary lubricant...which you will use very sparingly on shaft bushings, bandswitch ball detents , but keep it out of any electrical connections.. if in doubt use a Q-tip to apply and don't spray ! Any rust spots can get a surface wipe with the tri flow which prevent further rust by blocking oxygen.

I sometimes apply a little tri-flow with a paper towel to the (exposed) laminations of transformers which were rusty and which I have scrubbed with a green kitchen scrubber...I wipe off any excess right away. This makes it look a lot better, and doesn't seem to hurt anything.A fast pass with the same oil paper towel will make transformer shell look pretty good and prevent rust, if repainting isn't called for. And when you are unsure of the whole radio anyway, it usually isn't.

Now, and only now, is the time I would begin to test the radio.

Humidity and time wrecks capacitors...if yours is a japanese radio from the 60's and it has those tiny little "oil filled" caps all over it. you can begin by replacing everyone with modern "jap caps" (no offense meant) eg nichicons or equivalent toney dry electrolytics.. those particular oil filled caps were just like fire crackers.. just as notorious as the sprague black stripers... if the radio is later than that and already has the nichicon type caps...I would say it is not a candidate for any shotgun approach to recapping and that if it fails to work after this cleaning and retubing and a Proper Tune UP to compensate for component aging.... then it would make sense to do basic voltage checks from a chart in the manual and trouble shoot as required.

Hope that helps...and isn't it a TS 611 S.. I confess I forget.. but think

I have seen one once.

Larry Rau W6WUH

.leave under side
of chasis alone

Date: Thu, 11 Sep 1997 12:23:18 -0700
From: "Larry" <rau@wco.com>
To: "boatanchors" <boatanchors@theporch.com>
Subject: What is it?. What it is .
Message-ID: <199709111825.LAA16623@shell.wco.com>

You have the sense antenna from a manual Aricraft radio direction Finder....these were commonly made by bendix and some I think by motorola...the frequency range is the aircraft beacon, homing, and weather band, and the broadcast band, all of which are marked on aircraft charts for navigation...

The receivers are commonly found used, or were, but often the sense or loop antennas are missing.

The receivers are usually lovely things.. and it is a reliable barebones low tech nav system. Unfortunately the coast guard in their infinite federal wisdom had been letting out contracts to take out all the automated low power coastal LF beacons...which both sailors and flyers used..

All of us are supposed to buy GPS boxes, which are satellite dependent, get turned off and fail at alarming times, and cost billions to place and are not maintainable... this was a 'cost cutting' move... go figure

Capt. Larry Rau W6WUH

Date: Thu, 11 Sep 1997 14:36:39 -0400 (EDT)
From: John Poulton <jp@cs.unc.edu>
To: boatanchors@theporch.com
Subject: WTB: Manual for 51J2
Message-ID: <199709111836.OAA03534@mira.cs.unc.edu>

Posted this to the Collins list, so apologies to those who read both ba & collins:

Bought a fairly nice 51J2 at Shelby, and now need a manual

73
John Poulton KF40ZY

One caution about alcohols (or ANY aromatic hydrocarbon for that matter) and electrolytics: they are ABSOLUTELY FATAL to an electrolytic should they get inside. So be VERY careful not to allow it to touch such capacitors in any way.

Ed Tanton N4XY EMAIL: n4xy@bellsouth.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

"Think you can, think you can't: either way you're right!" Henry Ford

Date: Thu, 11 Sep 1997 13:44:15 -0500 (CDT)
From: maccary@on-ramp.ior.com
To: boatanchors@sco.theporch.com
Subject: National R115 RX Schematic

Message-ID: <199709111844.NAA01689@sco.theporch.com>

This posting must have gotten lost in cyberspace, so here we go again:

Where might I find the schematic for the subject RX? It looks like an NC-100 or an RBH but covers 200-400 kcs, and 500-18 mcs with the IF at 455+/- has only one RF stage and no Xtal filter. I finally got it playing and it makes a good BC and SWL radio, but I'm curious about the round metal cans on the chassis and wonder if they are audio filters.

Mac--WONAX

LAWRENCE MAC CARY --- A Subscriber at Internet On-Ramp, Inc.

Date: Thu, 11 Sep 1997 14:56:31 -0400
From: Ed Tanton <n4xy@bellsouth.net>
To: rau@wco.com
Cc: boatanchors@theporch.com
Subject: Re: Cleaning radios..511S ?
Message-ID: <3.0.1.32.19970911145631.00a349a0@mail.atl.bellsouth.net>

Hi Larry... that's as good a radio-clean-up article as I have ever seen. Nice job. I didn't notice your caveat about leaving the underside alone until later-the alcohol warning about electrolytics still applies... but there aren't that many on the top! I especially agree about the Caig. There's nothing like it. I have a good friend who uses WD-40(!!!)... I have tried to discourage this practice... WD-40 'dries' to leave a nasty non-conductive film... but he is too cheap to listen... we used to literally pressure wash the 500-series scopes at Tektronix... as long as you didn't spray the wand directly at the power transformer it would usually make it... and what a cleaning job with soap spray then hot water... we would then dry 'em in an oven for several days... looked NEW afterwards!

Also true about the cheap tuner spray... most contain abrasants that can just destroy a switch. And also the testers: I have a TV2/C and a Hickock 3444 and wouldn't take anything for 'em! I appreciate your comments... I have several radios I want to overhaul, and can use every tip I can get.

What do you think these professionals like MILTRONIX do when they practically disassemble R-390s with the wiring and electronics in general? Leave most of it? I cannot imagine them removing THAT much of the ordinary wiring. I have a pair of SX-28s that once redone could be literally 9.9+ if the best of each is combined... and am wondering about how far to go. Your

be properly reproduced. I hope to make available all of them,
every coil set, with band spread option calibration also available.

So here is the deal:

In return for a good hi-res scan of your tuning strips, I will furnish
one replacement of your choice. (I need 1800 DPI or better line art, in
.gif format.) Please e-mail for coil set list I still need.

When these are completed, I will make them available while they last
to BA members. Estimated final cost for these is about \$10 each.
(If I bought a 1000, they could get cheap, but in small quantities the
labor costs are high.)

In order to help me budget the size of the project, would everyone
interested in buying these things please e-mail me.

Thanks
-Larry

Larry's Home for Wayward Test Equipment & Old Radios (tm)
Let your equipment retire in sunny central Florida.
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Factory trained HP, Tek & Fluke Surgeon on staff.
Good Home Guaranteed or double your junk back!
lrware@pipeline.com - Orlando, FL -

Date: Thu, 11 Sep 1997 12:45:24 -0700
From: Scott Robinson <spr@earthlink.net>
To: boatanchors@theporch.com
Subject: The last thing to do when cleaning BAs
Message-ID: <34184A54.C47E22A1@earthlink.net>

is to RINSE WITH DISTILLED WATER! I've mentioned this here before, but
tests done in a humidity test chamber with zinc-plated electrical box
covers showed dramatic differences depending on whether or not you left
a residue of cleaning agent (409, TSP, Ivory or whatever) on the metal.
For preservation of our favorite Junque, that rinsing step is very
important. Don't make the radio look great now and rust 10 times as
fast afterwards.

Yours for good, clean, durable BAs,

--
Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Date: Thu, 11 Sep 1997 16:05:18 -0400
From: Ed Tanton <n4xy@bellsouth.net>
To: spr@earthlink.net
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: The last thing to do when cleaing BAs
Message-ID: <3.0.1.32.19970911160518.0098e100@mail.atl.bellsouth.net>

And the hotter, the better. You can test for yourself and see the difference between anything rinsed with room temp water and hot water. Fewer, smaller beads of water remain. (It will also tend to be a better solvent.) I figure every little bit helps!

72/73

Ed Tanton N4XY EMAIL: n4xy@bellsouth.net
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QRP-ARCI #7663	G-QRP #6779	OK-QRP #172	QRP-L #758	
AdvRC #140	NORCAL #1779		NCDXF	SEDXC
Life Member:	ARRL	AMSAT	INDEXA	QCWA

INTERESTS: DX QRP BoatAnchors Test Equipment Photography
CW: 99.9% QRP: 95-100% (Mood swings!) Mercury Paddle #0214

"Think you can, think you can't: either way you're right!" Henry Ford

End of BOATANCHORS Digest 1666
